

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,371	11/29/2003	Allan P. Bakke	•	3246
7:	590 03/30/2006		EXAM	INER
ALLAN P. BA		•	PRASAD, SONAL	SONAL
3220 COUNTY VIEW CT SW ROCHESTER, MN 55902			ART UNIT	PAPER NUMBER
			3767	
			DATE MAILED: 03/30/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office A - Alexa Commence	10/724,371	BAKKE, ALLAN P.			
Office Action Summary	Examiner	Art Unit			
	Sonal Prasad	3767			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 29 No.	ovember 2003.				
•					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 8-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 8-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/29/03. 1. S. Patent and Trademark Office					

Application/Control Number: 10/724,371 Page 2

Art Unit: 3767

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 8A is rejected under 35 U.S.C. 103(a) as being unpatentable over Bakke 2. (US 6,608,968) in view of Shigezawa (US 6,641,556). The claim differs from Bakke in disclosing the tubing for the blood/fluid warmer. Shigezawa discloses a passively insulated and actively warmed disposable outlet patient flow line system for in-line blood/fluid warmers comprising: a flexible tube flow line made of polyvinyl chloride or other resinous material has a central blood-carrying tube about 0.12 inch inside diameter and a wall thickness of about 0.04 inch, and is supported inside a larger tube which is co-extruded with said central tube and has an outside diameter of about 0.37 inch and a wall thickness of about 0.04 inch, said central and outer tubes being interconnected by co-extruded webs about 0.04 inch thick which appear in cross section as a planar diametrical web across the entire cross section with the exception of said central tube's lumen, wherein an annular space between said central and outer tubes is filled with heat insulative still air(Claims 1-4.) It would have been obvious at the time of invention to one of ordinary skill in the art to include the specific tubing disclosed in Bakke as taught by Shigezawa to improve the function of the outlet flow line.

Application/Control Number: 10/724,371

Art Unit: 3767

3. Claim 8B-F is rejected under 35 U.S.C. 103(a) as being unpatentable over Bakke (US 6,608,968.) in view of Shigezawa (US 6,641,556) and in further view of Bakke (US 5,420,962). The claim differs from Bakke in disclosing the method of heating. Bakke discloses said flow line having an inlet end adapted to connect to the warm blood outlet of an in-line blood warmer apparatus and an outlet end adapted to a patient intravenous site (Claim 1). It would have been obvious at the time of invention to one of ordinary skill in the art to include the specific tubing disclosed in Bakke as taught by Bakke to improve the function of the method of heating.

Claims 8C,D, E, F, are rejected under 35 U.S.C. 103(a) as being unpatentable over Bakke (US 6,608,968.) in view of Shigezawa (US 6,641,556). The claim differs from Bakke in disclosing the length of tubing, the electrical heating segment, and the temperature controller. Jordan discloses a flexible elongated electrical resistance heater segment located within each half of said annular air space, D.) said heater segments extending in length from about one half to nine tenths the length of said flexible tube flow line, and extending all the way to said outlet end of said flow line, E.) said internal heater segments being electrically and mechanically joined together at said outlet end of said flow line forming a series electrical resistance heater. F.) the two proximal ends of said electrical resistance heater being electrically and mechanically adapted to be removably connected to a temperature controller located in said blood warmer apparatus, C.) said electrical resistance heater being maintained at a controlled temperature of about 42C by a controller mounted inside said blood warmer apparatus,

Application/Control Number: 10/724,371

Art Unit: 3767

whereby blood is maintained at normothermic temperature near 42C while passing slowly at very low flow rates through said patient flow line system. It would have been obvious at the time of invention to one of ordinary skill in the art to include the specific tubing disclosed in Bakke as taught by Shigezawa to improve the function of the method of heating.

Claims 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bakke (US 5,420,962). Bakke discloses the invention substantially as claimed. However, he does not disclose the exact diameter, thickness, width, percentage of alloy materials, or shape as claimed. However, these parameters are deemed matters of design choice well within the skill of the ordinary artisan, obtained through routine experimentation in determining optimum results.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sonal Prasad whose telephone number is 571-272-3383. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on (571)272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/724,371 Page 5

Art Unit: 3767

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Sonal Prasad Examiner

Art Unit 3767

Rein C Sirmons 3/20/06